

## Banner Health | Demonstration

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Would you prefer-- why don't I just draw them up?

This syringe here demonstrates a normal syringe, and when I say normal, I mean it has the usual amount of dead space. Now, what is dead space? Dead space is the space in which when you administer or give a product, it's the amount of liquid that is left behind, just based on the way the syringe is made. And to show what that looks like, I'ma withdraw some water, get the air bubbles out.

So to demonstrate I'm going to withdraw 0.5 milliliters, get all the air out, and then I'm going to do the same for what we call a low dead space syringe. Now, if you notice a difference, there's a little nub in the middle. And what that's designed to do is that when you press the plunger all the way up, less dead space remains, so more liquid enters into the individual. Move myself right here.

So these two have the same amount of fluid in them. I withdrew to 0.5 milliliters on each one so that I could highlight the difference in dead space. I wanted to note here that the dose administered would be accurate, regardless of which type you used, because the manufacturers take dead space into account. So there's no difference in dose administered

What you are left with-- and now you can see the green liquid. This is a normal syringe. There is a large amount of leftover liquid compared to this syringe where there's just a tiny bubble on the top. In fact, based on the needles we are supplied, you could have an average dead space amount that results in losing a full dose just based on dead space once you draw up five syringes. When you think of the numbers in itself, a single vial, five turning into six or six turning into seven doesn't seem like too big of a deal. But when you think about the number, the sheer number of vaccine vials that are coming through these clinics, it becomes a substantial amount, tens of thousands of doses.

And those are more people we can get in our community vaccinated, which is the whole idea.

Absolutely, and the quicker we could do it, too, because we have the vaccine here ready to be administered.

Well, not only that but like we said, when we're asking for the government, and we're getting small incremental increases right now from the federal government. They're allocating to the states. This is a way we can increase without having to depend on the federal government giving us more. Can you put that into perspective for people, too?

Yeah, absolutely. So this is a way that we can stretch what's already been created. We don't have to wait for Pfizer, or Moderna, or someone to produce more products. This is what we already have ready and waiting to be administered. If we can get the right ancillary kits or the right provided syringes, we can get more people vaccinated. It's extremely important. If you think about it, without the right supplies, we may have vaccine, but we have no way to administer it, so it's super critical.

So you're going into here first?

Going into here and start drawing. I come up, and I'm going to get the bubbles to the top.